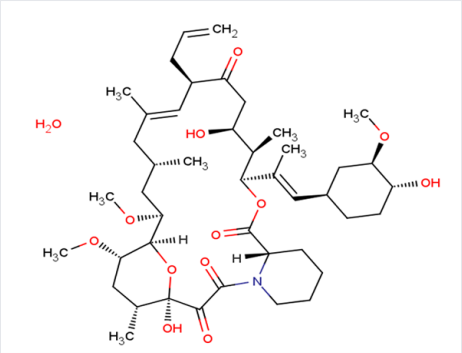
Tacrolimus hydrate Inhibitor

PRODUCT OVERVIEW

Product Name	Tacrolimus hydrate, Inhibitor
Full Product Name	Tacrolimus hydrate
Product Synonym Names	FK-506; FK 506; Prograf; LCP-Tacro; FR900506; FR 900506
Form/Format	Solid
Purity/Purification	99.2%
Preparation and Storage	Store at -20 degree C (Powder).
Molecular Weight	822.05
Solubility	DMSO: 100mg/mL (121.65mM) (<1mg/ml refers to the product slightly soluble or insoluble)
Formula	C44H71NO13
CAS Number	109581-93-3
Targets(IC50)	Autophagy, Antibacterial, Antibiotic, Phosphatase
Product Categories/Family for Tacrolimus hydrate, inhibitor	Autophagy; Metabolism; Microbiology/Virology; Antibacterial
Related Product Information for Tacrolimus hydrate, inhibitor	Tacrolimus hydrate is a macrolide from the culture broth of a strain of Streptomyces tsukubaensis, binds to FK506 binding protein (FKBP) to form a complex. Tacrolimus inhibits calcineurin phosphatase, which inhibits T-lymphocyte signal transduction and IL-2 transcription. Immunosuppressive properties. It prevents the activation of T-lymphocytes in response to antigenic or mitogenic stimulation in vitro and has strong immunosuppressive activity in vivo.
Product References and Citations for Tacrolimus hydrate, inhibitor	Dodi PL. Immune-mediated keratoconjunctivitis sicca in dogs: current perspectives on management. Vet Med (Auckl). 2015 Oct 30;6:341-347. doi: 10.2147/VMRR.S66705. eCollection 2015. Review. PubMed PMID: 30101119; PubMed Central PMCID: PMC6067592. Kumar A, Singh N. Calcineurin Inhibition and Protein Kinase A Activation Limits Cognitive Dysfunction and Histopathological Damage in a Model of Dementia of the Alzheimer's Type. Curr Neurovasc Res. 2018 Aug 13. doi: 10.2174/1567202615666180813125125. [Epub ahead of print] PubMed PMID: 30101704. Shin MH, Song GW, Lee SG, et al. Once-daily, prolonged-release tacrolimus versus twice-daily, immediate-release tacrolimus in de novo living-donor liver transplantation: a Phase 4, randomized, open-label, comparative, single-center study. Clin Transplant. 2018 Aug 11:e13376. doi: 10.1111/ctr.13376. [Epub ahead of print] PubMed PMID: 30098071. Liu YJ, Fan H, Zhen WW, Yu X, Chen JT, Wang CD. Pooled analysis of the comparative efficacy between tacrolimus and infliximab for ulcerative colitis. Medicine (Baltimore). 2018 Aug;97(32):e11440. doi: 10.1097/MD.0000000000011440. PubMed PMID: 30095612.
Other Notes	Small volumes of Tacrolimus hydrate, inhibitor vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Tacrolimus hydrate purchase	MBS5764784 is an inhibitor targeting Tacrolimus hydrate.



Chemical Structure of Tacrolimus hydrate, inhibitor

	1mg	5mg	10mg
1 mM	1.2165	6.0824	12.1647
5 mM	0.2433	1.2165	2.4329
10 mM	0.1216	0.6082	1.2165
50 mM	0.0243	0.1216	0.2433

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Testing Data (TD) of Tacrolimus hydrate, inhibitor

Preparing Stock Solutions

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us

Online datasheet: https://www.mybiosource.com/inhibitor/tacrolimus-hydrate/5764784